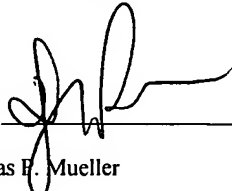


| | | | |
|--|---|---|--|
| FORM PTO-1390 (REV 10-94) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTORNEY'S DOCKET NUMBER 10873.1444USWO |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | | U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) UNKNOWN 10/552796 |
| INTERNATIONAL APPLICATION NO. PCT/JP2004/005283 | INTERNATIONAL FILING DATE APRIL 14, 2004 | PRIORITY DATE CLAIMED APRIL 16, 2003 | |
| TITLE OF INVENTION DISCHARGING SOLUTION, METHOD FOR PRODUCING PATTERNS AND METHOD FOR PRODUCING AN ELECTRONIC DEVICE USING THE DISCHARGING SOLUTION, AND ELECTRONIC DEVICE | | | |
| APPLICANT(S) FOR DO/EO/US NAKAGAWA | | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | |
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(I). 4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | | |
| Items 11. to 16. below concern document(s) or information included: | | | |
| 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98, Form 1449, 22 references. | | | |
| 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | | |
| 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment, Marked-up copy of Specification, Clean copy of Specification, copy of Article 34 Amendment (first, with replacement sheets 79 to 82, 84) copy of Article 34 Amendment (second, with replacement sheets 79-84). <input type="checkbox"/> A SECOND of SUBSEQUENT preliminary amendment. | | | |
| 14. <input type="checkbox"/> A substitute specification. | | | |
| 15. <input type="checkbox"/> A change of power of attorney and/or address letter. | | | |
| 16. <input checked="" type="checkbox"/> Other items or information: Application Data Sheet (3 pages), International Publication Page of WO 2004/093507 A1, Communication re: Requested Figure, Form PCT/ISA/210, Form PCT/IB/304, Form PCT/IB/308, Form PCT/IPEA/409 with amended sheets 79-84. | | | |

| | | | | | |
|---|--------------|---|------------|--|--------|
| U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) UNKNOWN 10/552796 | | INTERNATIONAL APPLICATION NO. PCT/JP2004/005283 | | ATTORNEY'S DOCKET NUMBER 10873.1444USWO | |
| BASIC NATIONAL FEE (37 CFR 1.492(a) (1)-(5)): | | | | | |
| [X] a) Basic National fee.....\$300.00 | | | | \$300.00 | |
| [X] b) Examination fee.....\$200.00 | | | | \$200.00 | |
| [X] c) Search fee.....\$500.00 | | | | \$500.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$1000.00 | |
| Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | Rate | | |
| 92 - 100 = | 0 / 50 = | | X \$250.00 | \$0.00 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | \$0.00 | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
| Total claims | 25 - 20 = | 5 | X \$50.00 | \$250.00 | |
| Independent claims | 4 - 3 = | 1 | X \$200.00 | \$200.00 | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360.00 | \$0.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$1450.00 | |
| Reduction by 1/2 for filing by small entity, if applicable. Small entity status is claimed pursuant to 37 CFR 1.27 | | | | \$0.00 | |
| SUBTOTAL = | | | | \$1450.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | + \$0.00 | |
| TOTAL NATIONAL FEE = | | | | \$1450.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | + \$0.00 | |
| TOTAL FEES ENCLOSED = | | | | \$1450.00 | |
| | | | | Amount to be: refunded | \$0.00 |
| | | | | charged | \$0.00 |
| a. [X] Check(s) in the amount of \$1450.00 to cover the above fees is enclosed. | | | | | |
| b. [] Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. | | | | | |
| c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-3478</u> . | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. | | | | | |
| SEND ALL CORRESPONDENCE TO: Douglas P. Mueller Hamre, Schumann, Mueller & Larson, P.C. P.O. Box 2902-0902 Minneapolis, MN 55402 | | | | | |
| | | | | SIGNATURE:  | |
| | | | | NAME: Douglas P. Mueller | |
| | | | | REGISTRATION NUMBER: 30,300 | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: NAKAGAWA et al.

JCD09 Rec'd PCT/PTO 13 OCT 2009

Docket: 10873.1444USWO

Title: DISCHARGING SOLUTION, METHOD FOR PRODUCING PATTERNS AND
METHOD FOR PRODUCING AN ELECTRONIC DEVICE USING THE
DISCHARGING SOLUTION, AND ELECTRONIC DEVICE

CERTIFICATE UNDER 37 CFR 1.10:

"Express Mail" mailing label number: ED 977673127 US

Date of Deposit: OCTOBER 13, 2005

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: PCT, Commissioner for Patents
P.O. Box 1450 Alexandria, Virginia 22313-1450.

By: 

Name: YUHGO MARUTA

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal sheet, in duplicate, containing Certificate under 37 CFR 1.10.
- ☒ National Stage PCT Patent Application: Spec. 78 pgs; 27 claims (6 pages); 1 pg Abstract.
The fee has been calculated as shown below in the 'Claims as Filed' table.
- ☒ 14 sheets of formal drawings
- ☒ A signed Combined Declaration and Power of Attorney
- ☒ Check in the amount of \$1450.00 to cover the Filing Fee
- ☒ Information Disclosure Statement, Form 1449, 22 references.
- ☒ Application Data Sheet, 3 pages.
- ☒ Other: Form PTO-1390, International Publication page of WO 2004/093507 A1, Preliminary Amendment, Marked-up copy of Specification, Clean copy of Specification, copy of Article 34 Amendment (first, with replacement sheets 79-82, 84), copy of Article 34 Amendment (second, with replacement sheets 79-84), Communication re: Figure Publication, Form PCT/ISA/210, Form PCT/IB/304, Form PCT/IB/308, Form PCT/IPEA/409 with replacement sheets 79-84.
- ☒ Return postcard

CLAIMS AS FILED

| Number of Claims Filed | No. | In Excess of | Extra | Rate | Fee |
|--------------------------------------|-----|--------------|-------|--------|-----------|
| Total Claims | 25 | 20 | 5 | 50.00 | = 250.00 |
| Independent Claims | 4 | 3 | 1 | 200.00 | = 200.00 |
| Multiple Dependent Claims Fee | | | | | = 0.00 |
| Basic Filing Fee | | | | | = 300.00 |
| Search Fee | | | | | = 500.00 |
| Examination Fee | | | | | = 200.00 |
| Utility Application Size Fee | 92 | 100 | 0 | 250.00 | = 0.00 |
| Total | | | | | = 1450.00 |

Please charge any additional fees or credit overpayment to Deposit Account No. 50-3478. A duplicate of this sheet is enclosed.

Hamre, Schumann, Mueller & Larson, P.C.
P.O. Box 2902-0902 Minneapolis, MN 55402
612.455-3800

By: 

Name: Douglas P. Mueller
Reg. No.: 30,300
Initials: DPM:nel

53148

(PTO TRANSMITTAL - NEW FILING)

S/N unknown

10/552796
PATENT
JC09 Rec'd PCT/PTO 13 OCT 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: NAKAGAWA Examiner: unknown
Serial No.: unknown Group Art Unit: unknown
Filed: Concurrent Docket: 10873.1444USWO
herewith
Title: DISCHARGING SOLUTION, METHOD FOR PRODUCING
PATTERNS AND METHOD FOR PRODUCING AN
ELECTRONIC DEVICE USING THE DISCHARGING
SOLUTION, AND ELECTRONIC DEVICE

CERTIFICATE UNDER 37 CFR 1.10:

"Express Mail" mailing label number: ED 977673127 US

Date of Deposit: OCTOBER 13, 2005

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Arlington, VA 22313-1450..

By: 

Name: YUHGO MARUTA

COMMUNICATION REGARDING REQUESTED FIGURE

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In connection with the above-identified application, applicant respectfully requests that Figure(s) 9A-9D be printed on the front page of the published application.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicants' primary attorney-of record Douglas P. Mueller (Reg. No. 30,300), at (612) 455.3804.

Respectfully submitted,

HAMRE, SCHUMANN, MUELLER &
LARSON, P.C.
P.O. Box 2902-0902
Minneapolis, MN 55402-0903
(612) 455-3800

Dated: October 13, 2005

By: 

Douglas P. Mueller
Reg. No. 30,300

DPM:nel